



Water-Data Report 2008

01387450 MAHWAH RIVER NEAR SUFFERN, NY

PASSAIC RIVER BASIN

LOCATION.--Lat 41°08'28", long 74°06'58" referenced to North American Datum of 1983, Ramapo Township, Rockland County, NJ, Hydrologic Unit 02030103, on left bank 13 ft upstream from bridge on U.S. Route 202, 4.8 mi upstream from mouth, and 2.5 mi northeast of Suffern.

DRAINAGE AREA.--12.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, water years 1959-95, October 2005 to current year. Annual maximum, water years 1996 to 2005.

REVISED RECORDS.--WDR NY-79-1:1977(P). WDR NY-87-1:1986.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft above NGVD of 1929. Prior to Nov 18, 1976, water-stage recorder at site on right bank, 13 ft downstream, at present datum.

REMARKS.--Records fair, except for daily discharges from Jun 14 to Sep 30, which are poor. Occasional regulation due to unknown source. Pumping from wells upstream of gage may affect flow past gage. Satellite gage-height telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 27	1245	349	4.48
Dec 24	0030	*596	*5.54
Feb 13	1815	456	4.98
Mar 8	1900	382	4.64

01387450 MAHWAH RIVER NEAR SUFFERN, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.6	11	18	74	47	35	26	15	19	4.1	2.7	1.9
2	2.7	10	16	66	88	32	25	17	12	3.4	6.4	1.8
3	2.7	8.8	28	47	42	31	20	15	9.8	3.1	6.4	1.8
4	2.9	7.9	27	41	33	55	31	15	13	4.8	4.0	1.6
5	2.7	6.6	20	38	34	150	31	14	11	30	3.3	1.5
6	2.7	12	17	37	40	91	25	12	9.1	8.9	19	37
7	2.8	11	16	35	40	69	23	10	8.1	5.9	6.3	48
8	2.9	8.5	15	33	34	186	21	9.5	7.3	4.4	4.3	10
9	3.5	8.0	15	32	31	173	20	21	6.6	4.0	4.0	16
10	6.8	12	24	28	34	94	19	35	5.6	3.5	3.2	11
11	8.4	10	19	38	28	75	18	21	6.5	3.2	2.9	e7.0
12	14	8.9	18	39	24	63	27	17	5.5	3.2	2.8	e8.0
13	4.0	9.6	19	32	231	52	23	15	4.9	3.0	2.7	10
14	2.3	8.8	19	35	192	45	20	14	6.3	4.7	2.5	6.7
15	1.9	16	17	31	100	43	18	16	13	4.2	2.6	5.5
16	1.9	21	18	26	74	38	16	27	7.5	3.0	2.7	3.6
17	1.8	16	15	23	58	33	15	39	9.1	2.8	2.4	3.0
18	1.9	13	13	33	150	29	15	25	6.7	2.6	2.2	2.7
19	3.3	13	12	31	108	55	14	20	7.2	2.4	2.3	2.7
20	27	16	13	25	73	78	13	18	5.4	2.9	2.5	2.5
21	6.2	16	13	20	57	50	12	22	6.1	2.5	2.6	2.5
22	3.8	14	13	19	51	42	11	18	6.2	2.2	2.4	2.4
23	3.4	11	99	18	45	38	11	15	8.0	3.8	2.0	2.4
24	3.5	11	289	17	42	34	10	13	6.1	30	1.8	2.4
25	3.5	9.4	104	15	36	31	9.7	12	4.8	9.0	1.9	2.4
26	3.5	21	68	13	41	29	8.9	11	4.2	5.0	1.7	34
27	118	43	75	13	57	27	8.6	21	4.6	4.7	1.6	17
28	57	30	58	12	40	27	18	27	4.0	4.1	1.6	10
29	28	24	79	12	33	24	38	15	4.0	3.6	1.7	11
30	18	20	68	14	---	21	20	12	5.3	3.3	1.7	6.8
31	13	---	75	13	---	21	---	12	---	3.1	1.9	---
Total	356.7	427.5	1,300	910	1,863	1,771	567.2	553.5	226.9	175.4	106.1	273.2
Mean	11.5	14.2	41.9	29.4	64.2	57.1	18.9	17.9	7.56	5.66	3.42	9.11
Max	118	43	289	74	231	186	38	39	19	30	19	48
Min	1.8	6.6	12	12	24	21	8.6	9.5	4.0	2.2	1.6	1.5
Cfsm	0.94	1.16	3.41	2.39	5.22	4.64	1.54	1.45	0.61	0.46	0.28	0.74
In.	1.08	1.29	3.93	2.75	5.63	5.36	1.72	1.67	0.69	0.53	0.32	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.6	26.3	29.8	28.3	31.6	44.4	41.0	29.2	17.4	9.62	8.41	9.49
Max	94.0	100	88.8	104	76.2	113	115	105	82.7	45.4	37.9	57.3
(WY)	(2006)	(1978)	(1984)	(1979)	(1970)	(1983)	(1983)	(1989)	(1972)	(1984)	(1990)	(1971)
Min	1.94	2.31	5.72	2.02	7.68	9.75	8.14	12.5	3.92	1.31	0.90	0.68
(WY)	(1981)	(1965)	(1981)	(1981)	(1980)	(2006)	(1985)	(1965)	(1991)	(1977)	(1993)	(1980)

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1958 - 2008		
Annual total	7,842.9		8,530.5				
Annual mean	21.5		23.3		24.2		
Highest annual mean					41.4		1984
Lowest annual mean					11.2		1985 ^a
Highest daily mean	651	Apr 16	289	Dec 24	1,040	Nov 8, 1977	
Lowest daily mean	1.6	Jul 3	1.5	Sep 5	b0.12	Oct 21, 1970 ^a	
Annual seven-day minimum	2.3	Aug 1	1.7	Aug 24	0.36	Sep 30, 2005 ^a	
Maximum peak flow			596	Dec 24	c1,840	Nov 8, 1977	
Maximum peak stage			5.54	Dec 24	9.91	Nov 8, 1977	
Instantaneous low flow			1.2	Aug 28	0.05	Oct 20, 1970 ^b	
Annual runoff (cfs^m)	1.75		1.89		1.97		
Annual runoff (inches)	23.72		25.80		26.77		
10 percent exceeds	44		51		53		
50 percent exceeds	11		14		14		
90 percent exceeds	2.7		2.6		2.3		

^a No minimum data recorded from October 1995 to July 2005.

^b Result of temporary pumping from gage pool.

^c From rating curve extended above 850 ft³/s on basis of contracted-opening measurement at gage height 9.91 ft.

